

ATGGCGGACATTTGACCACCCAGGCTTGGCAAGACCTGACCGATCATTACTCAAACCTTC
 1 -----+-----+-----+-----+-----+-----+ 60
 M A D I S T T Q A W Q D L T D H Y S N F
 CAGGCAACCACTCTGCGTGAACCTTTTCAAGGAAGAAAACCGCGCCGAGAAGTACACCTTC
 61 -----+-----+-----+-----+-----+-----+ 120
 Q A T T L R E L F K E E N R A E K Y T F
 TCCGCGGCTGGCCTCCACGTCGACCTGTCGAAGAATCTGCTTGACGACGCCACCCTCACC
 121 -----+-----+-----+-----+-----+-----+ 180
 S A A G L H V D L S K N L L D D A T L T
 AAGCTCCTTGCACTGACCGAAGAATCTGGCCTTCGCGAACGCATTGACGCGATGTTTGCC
 181 -----+-----+-----+-----+-----+-----+ 240
 K L L A L T E E S G L R E R I D A M F A
 GGTGAACACCTCAACAACACCGAAGACCGCGCTGTCCTCCACACCGCGCTGCGCCTTCCT
 241 -----+-----+-----+-----+-----+-----+ 300
 G E H L N N T E D R A V L H T A L R L P
 CCCGAAGCTGATCTGTCAGTAGATGGCCAAGATGTTGCTGCTGATGTCCACGAAGTTTTCG
 301 -----+-----+-----+-----+-----+-----+ 360
 P E A D L S V D G Q D V A A D V H E V L
 GGACGCATGCGTGACTTCGCTACTGCGCTGCGCTCAGGCAACTGGTTGGGACACACCGGC
 361 -----+-----+-----+-----+-----+-----+ 420
 G R M R D F A T A L R S G N W L G H T G
 CACACGATCAAGAAGATCGTCAACATTGGTATCGGTGGCTCTGACCTCGGACCAGCCATG
 421 -----+-----+-----+-----+-----+-----+ 480
 H T I K K I V N I G I G G S D L G P A M
 GCTACGAAGGCTCTGCGTGCATACGCGACCGCTGGTATCTCAGCAGAATTCGTCTCCAAC
 481 -----+-----+-----+-----+-----+-----+ 540
 A T K A L R A Y A T A G I S A E F V S N
 GTCGACCCAGCAGACCTCGTTTCTGTGTTGGAAGACCTCGATGCAGAATCCACATTGTTC
 541 -----+-----+-----+-----+-----+-----+ 600
 V D P A D L V S V L E D L D A E S T L F

FIG.1A

601 GTGATCGCTTCGAAAACCTTTTACCACCCAGGAGACGCTGTCTAACGCTCGTGCAGCTCGT
 -----+-----+-----+-----+-----+-----+-----+ 660
 V I A S K T F T T Q E T L S N A R A A R
 661 GCTTGGCTGGTAGAGAAGCTCGGTGAAGAGGCTGTCGCGAAGCATTTTCGTCGCAGTGTCC
 -----+-----+-----+-----+-----+-----+-----+ 720
 A W L V E K L G E E A V A K H F V A V S
 721 ACCAATGCTGAAAAGGTCGCAGAGTTCGGTATCGACACGGACAACATGTTCCGGCTTCTGG
 -----+-----+-----+-----+-----+-----+-----+ 780
 T N A E K V A E F G I D T D N M F G F W
 781 GACTGGGTCGGAGGTCGTTACTCCGTGGACTCCGCAGTTGGTCTTTCCTCATGGCAGTG
 -----+-----+-----+-----+-----+-----+-----+ 840
 D W V G G R Y S V D S A V G L S L M A V
 841 ATCGGCCCTCGCGACTTCATGCGTTTCCTCGGTGGATTCCACGCGATGGATGAACACTTC
 -----+-----+-----+-----+-----+-----+-----+ 900
 I G P R D F M R F L G G F H A M D E H F
 901 CGCACCACCAAGTTCGAAGAGAACGTTCCAATCTTGATGGCTCTGCTCGGTGTCTGGTAC
 -----+-----+-----+-----+-----+-----+-----+ 960
 R T T K F E E N V P I L M A L L G V W Y
 961 TCCGATTTCTATGGTGCAGAAACCCACGCTGTCCTACCTTATTCCGAGGATCTCAGCCGT
 -----+-----+-----+-----+-----+-----+-----+ 1020
 S D F Y G A E T H A V L P Y S E D L S R
 1021 TTTGCTGCTTACCTCCAGCAGCTGACCATGGAATCAAACGGCAAGTCAGTCCACCGCGAC
 -----+-----+-----+-----+-----+-----+-----+ 1080
 F A A Y L Q Q L T M E S N G K S V H R D
 1081 GGCTCCCCTGTTTCCACTGGCACTGGCGAAATTTACTGGGGTGAGCCTGGCACAAATGGC
 -----+-----+-----+-----+-----+-----+-----+ 1140
 G S P V S T G T G E I Y W G E P G T N G
 1141 CAGCACGCTTTCTTCCAGCTGATCCACCAGGGCACTCGCCTTGTTCCAGCTGATTTTCATT
 -----+-----+-----+-----+-----+-----+-----+ 1200
 Q H A F F Q L I H Q G T R L V P A D F I

FIG.1B

1201 GGTTCGCTCGTCCAAAGCAGGATCTTCCTGCCGGTGAGCGCACCATGCATGACCTTTTG
 -----+-----+-----+-----+-----+-----+ 1260
 G F A R P K Q D L P A G E R T M H D L L
 1261 ATGAGCAACTTCTTCGCACAGACCAAGGTTTGGCTTTCGGTAAGAACGCTGAAGAGATC
 -----+-----+-----+-----+-----+-----+ 1320
 M S N F F A Q T K V L A F G K N A E E I
 1321 GCTGCGGAAGGTGTCGCACCTGAGCTGGTCAACCACAAGGTCATGCCAGGTAATCGCCCA
 -----+-----+-----+-----+-----+-----+ 1380
 A A E G V A P E L V N H K V M P G N R P
 1381 ACCACCACCATTTTGGCGGAGGAACTTACCCCTTCTATTCTCGGTGCGTTGATCGCTTTG
 -----+-----+-----+-----+-----+-----+ 1440
 T T T I L A E E L T P S I L G A L I A L
 1441 TACGAACACATCGTGATGGTTCAGGGCGTGATTGGGACATCAACTCCTTCGACCAATGG
 -----+-----+-----+-----+-----+-----+ 1500
 Y E H I V M V Q G V I W D I N S F D Q W
 1501 GGTGTTGAACTGGGCAAACAGCAGGCAAATGACCTCGCTCCGGCTGTCTCTGGTGAAGAG
 -----+-----+-----+-----+-----+-----+ 1560
 G V E L G K Q Q A N D L A P A V S G E E
 1561 GATGTTGACTCGGGAGATTCTTCCACTGATCACTGATTAAGTGGTACCGCGCAAATAGG
 -----+-----+-----+-----+-----+-----+ 1620
 D V D S G D S S T D S L I K W Y R A N R
 TAG
 1621 --- 1623

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FIG.1C